

Notice of Allowability

Application No.

09/926,571

Examiner

Russell Kallis

Applicant(s)

DIXON ET AL.

Art Unit

1638

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 10/21/2004.
2. ☒ The allowed claim(s) is/are 1-3,6-10,36,43-46 renumbered 1-13.
3. ☒ The drawings filed on 20 November 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>11/23/2004</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert Hanson on 11/29/2004.

The application has been amended as follows:

In the claims:

Claims 15-35, 39-42 and 47-50 are canceled.

In Claim 1, line 5, change "and/or" to --or--.

In Claim 1, line 7, after "transgenic" insert --plant--.

Claim 6 (currently amended) A method of producing at least one 4'-*O*-methylated isoflavonoid compound in a target legume plant that does not [produce said 4'-*O*-methylated isoflavonoid compound] express isoflavone *O*-methyltransferase, comprising transforming said target legume plant with a DNA encoding isoflavone *O*-methyltransferase, wherein said DNA encodes the polypeptide encoded by SEQ ID NO:1 [and/]or comprises SEQ ID NO:1 or a sequence that hybridizes with SEQ ID NO:1 under wash conditions of 0.2 x SSC, 0.1 % SDS at 65°C, to [form] produce a transgenic plant [producing] that produces at least one 4'-*O*-methylated isoflavonoid compound.

In Claim 9, line 2, after "target" insert --legume--.

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Claim 10 (currently amended) The method of claim 6, wherein said target legume plant is a genetically transformed plant [to encode for] comprising a polynucleotide encoding at least one enzyme of isoflavonoid biosynthesis other than isoflavone *O*-methyltransferase.

In Claim 36, line 4, change “and/or” to --or--.

In Claim 43, line 4, change “and/or” to --or--.

In Claim 44, line 1 delete “Seed” and insert --Transgenic seed--.

In Claim 44, line 3, change “and/or” to --or--.

In Claim 45, line 1, delete “Progeny” and insert --Transgenic progeny--.

In Claim 45, line 1, after “transgenic” insert --legume--.

In Claim 45, line 3, change “and/or” to --or--.

In Claim 45, line 4, delete “42°C” and insert --65°C--.

In Claim 46, line 1, delete “Progeny” and insert --Transgenic progeny--.

In Claim 46, line 4, change “and/or” to --or--.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Kallis whose telephone number is (571) 272-0798. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson can be reached on (571) 272-0804. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Russell Kallis Ph.D.
November 23, 2004



AMY J. NELSON, PH.D
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600